Abstract

Wide-body connectors are provided for concrete sandwich walls. Each connector includes a body with longitudinally thickened portions defining flanges and a thinner inner connecting web extending between the flanges. The flanges provide increased bending stiffness for the connector, while the web provides enhanced shear transfer between the concrete layers of the wall. Anchoring surfaces are formed into or overmolded onto the body to anchor the ends of the connector in the concrete layers of the wall and assist in the creation of end moments ofr the transfer of forces between the concrete layers. Preferably, a lip is provided on the connector to limit the penetration of the connector through the insulation layer of the wall. The connectors transfer forces between the concrete layers, without thermal bridging, such that the wall has a substantially composite character.